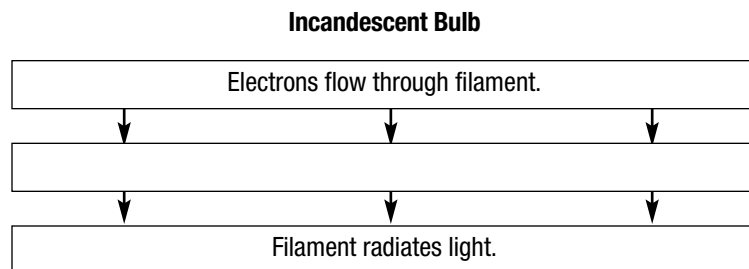


Chapter 18 The Electromagnetic Spectrum and Light**Section 18.5 Sources of Light****(pages 558–562)***This section discusses the major sources of light and their uses.***Reading Strategy (page 558)**

Flowchart Complete the incandescent bulb flowchart. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.



1. Objects that give off their own light are _____.
2. List six common sources of light.
 - a. _____
 - b. _____
 - c. _____
 - d. _____
 - e. _____
 - f. _____

Incandescent Light (page 558)

3. The light produced when an object gets hot enough to glow is _____.
4. As electrons flow through an incandescent light bulb, the _____ heats up.
5. Is the following sentence true or false? To increase the life of the filament, incandescent light bulbs contain oxygen at very low pressure. _____
6. Most of the energy given off by incandescent bulbs is in the form of _____.

Fluorescent Light (page 559)

7. What happens in the process of fluorescence? _____
8. A solid material that can emit light by fluorescence is called a(n) _____.
9. Fluorescent bulbs emit most of their energy in the form of _____.
10. Is the following sentence true or false? Incandescent bulbs are more energy efficient than fluorescent bulbs. _____

Chapter 18 The Electromagnetic Spectrum and Light

Laser Light (page 560)

11. A laser is a device that generates _____.
12. The letters in the word *laser* stand for
 - l _____
 - a _____
 - s _____
 - e _____
 - r _____.
13. What is coherent light? _____

14. Why does coherent light have a relatively constant intensity? _____

Neon Light (page 561)

15. How is neon light emitted? _____

16. List three gases used to produce neon light.
 - a. _____
 - b. _____
 - c. _____
17. Why do different types of neon light glow in different colors? _____

Sodium-Vapor Light (page 562)

18. Sodium-vapor lights contain a mixture of _____
and a small amount of solid _____.
19. Explain what happens when an electric current passes through a sodium-vapor bulb. _____

Tungsten-Halogen Light (page 562)

20. Explain how a tungsten-halogen light bulb works. _____

